

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Previously Presented): An optical disc on which wobbled grooves are concentrically or spirally formed, and physical address information is recorded by modulating groove wobbles,

wherein address information is formed by M wobbles per bit as a basic unit, and the address information is NRZ-recorded, where integer M is the number of wobble waves,

wherein a sync signal used in sync detection of the address information is formed by N wobbles per bit as a basic unit, and the sync signal with that configuration is recorded on the head side of the address information, where integer N is the number of wobble waves and  $M = 2N$ .

Claim 2 (Canceled).

Claim 3 (Previously Presented): An optical disc according to claim 1, wherein the sync signal is configured to contain a symbol sequence 010 or 101 which is not present in the address information, and a symbol sequence with a runlength of not less than 1.

Claim 4 (Canceled).

Claim 5 (Currently Amended): An optical disc according to claim 1, wherein the sync signal is formed using a pattern, which is selected from signal patterns defined by the configuration of claim 2, and has a largest minimum Hamming distance to all address

~~information symbols and an out-of-phase sync signal among the defined signal patterns and has a smallest number of phase changes in the sync signal.~~

Claims 6-8 (Canceled).

Claim 9 (Currently Amended): A reproduction ~~An optical disc~~  
~~recording/reproduction~~ apparatus using an optical disc on which wobbled grooves are  
concentrically or spirally formed, and physical address information is recorded by modulating  
groove wobbles,

wherein address information is formed by M wobbles per bit as a basic unit, and the  
address information is NRZ-recorded, where integer M is the number of wobble waves,

wherein a sync signal used in sync detection of the address information is formed by  
N wobbles per bit as a basic unit, and the sync signal with that configuration is recorded on  
the head side of the address information, where integer N is the number of wobble waves and  
 $M = 2N$ , of claim 1, configured to comprise a dedicated detection circuit for detecting the  
sync signal said apparatus comprising:

a detector circuit configured to detect the groove wobbles to provide a wobble signal;

a generator circuit configured to generate a waveform signal from the wobble signal;

and

a dedicated detection circuit configured to detect the sync signal from the waveform  
signal.

Claims 10-13 (Canceled).

Claim 14 (Currently Amended): A method for reproducing information from an optical disc on which wobbled grooves are concentrically or spirally formed, and physical address information is recorded by modulating groove wobbles,

wherein address information is formed by M wobbles per bit as a basic unit, and the address information is NRZ-recorded, where integer M is the number of wobble waves,

wherein a sync signal used in sync detection of the address information is formed by N wobbles per bit as a basic unit, and the sync signal with that configuration is recorded on the head side of the address information, where integer N is the number of wobble waves and  $M = 2N$ , of claim 1, according to said address information said method comprising:

reading the groove wobbles to provide a wobble signal;

generating a waveform signal from the wobble signal; and

detecting the sync signal from the waveform signal.